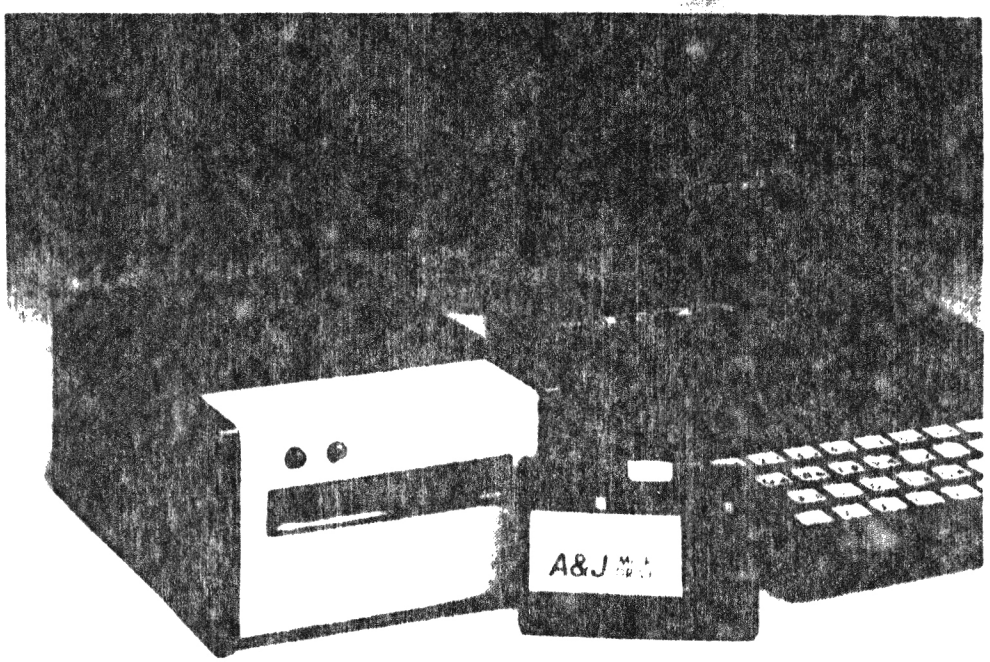
STRINGY FLOPPY
FOR
THE TIMEX/SINCLAIR

RMG ENTERPRISES
1419 1/2 7TH STREET
OREGON CITY, OR 97045

From A&J MICRO DRIVE



Pictured above is a Timex 1000 computer, Stringy Floppy Interface & Drive, 16K RAM Pack and a Micro Wafer.

ADVANTAGES OF THE STRINGY FLOPPY

1. Data transfer of 10.4K baud (30 times faster than cassette)
2. No sensitive volume controls
3. ESF keeps updated directory file
4. Automatic verify with save
5. No rewinding or buttons to push
6. All power supplied from wall transformer
7. Plugs into expansion port
8. Compatible with other peripherals
9. Dual drive systems
10. Up to 127 files per tape
11. Program chaining capabilities
12. Works with machine language
13. Portable and reliable

A&J MICRO DRIVE 10' EAST DUANE AVENUE SUNNYVALE, CA 94086 (408) 732-9292

THE STRINGY FLOPPY SYSTEM
HOW TO USE IT

WHAT CAN I CONNECT THE STRINGY TO?

The Stringy Floppy is designed to be used with the Sinclair ZX-80, Sinclair ZX-81, Timex 1000, and Timex 1500. If you wish to use the Stringy with the ZX-80 you must have the 8K ROM BASIC INTERPRETER. For the Timex 1500 some kind of extender will be needed to move the Stringy away from the back of the computer. A Timex printer works just fine.

HOW DO YOU CONNECT IT?

Connection of the Stringy Floppy to your computer is extremely straight forward. Just plug the Stringy Floppy into the expansion port on the rear of your computer and a 120V AC outlet. If you have something already connected (such as a RAM pack), then plug the Stringy Floppy in first and use its expansion port for the RAM pack.

Once connected to the computer, the operating system needs to be activated. Simply type "PRINT USR 12345"(ENTER). Your computer will instantly display the easy to use command menu table. The following should appear:

EXATRON STRINGY FLOPPY
OPERATING SYSTEM

1. GET WAFER DIRECTORY
2. LOAD PROGRAM
3. SAVE BASIC PROGRAM
4. INITIALIZE WAFER
5. RETURN TO BASIC
6. LOAD BY NUMBER
7. SAVE MACHINE PROGRAM
8. SELECT DRIVE
9. COPY WAFERS

Once into the operating system, push the numbered key corresponding to the command you want. The Stringy Floppy does the rest.

MONEY BACK GUARANTEE:

All wafer drive come with a 30-day unconditional money-back guarantee.

WAFER DRIVE WARRANTY:

All A&J Micro Drive Sales & Service products (except MICRO WAFERS) are warranted for 90 days. If your products should fail within 90 days, A&J Micro Drive will repair your products for no charge, if return postage paid. Additionally, all products may be returned postage paid within 30 days for full refund of purchase price.

MICRO WAFER WARRANTY:

Wafers are guaranteed for a period of 45 days from date of shipment. If the wafer should fail during this period, return the wafer post paid and replacements will be returned as soon as possible at no charge.

EXCEPTIONS TO WARRANTY:

Operator misuse.
Customer repairs or modifications not authorized by A&J Micro Drive Sales & Service.
Shipment damaged due to improper packing.

SHIPPING CHARGES = $3.00 C.O.D. = $1.65 CA RESIDENTS ADD 6.5% TAX

THE MICRO WAFER & WAFER TRANSPORT

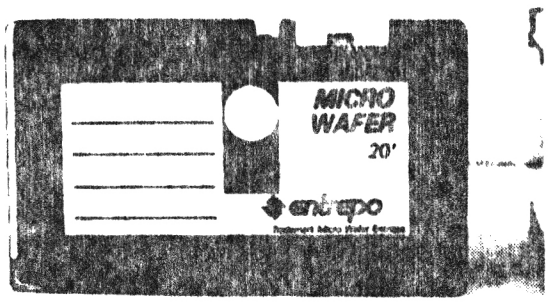
MICRO WAFER SPECIFICATIONS:

Configuration	Continuous-loop cartridge
Data Capacity, maximum (50-foot, 15.24 metre, wafer; recorded at 10400 baud)	70K

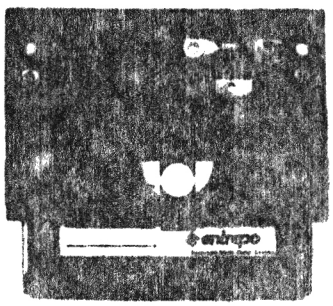
DIMENSIONS

Wafer	
Size	1.6 by 2.7 by 0.2 inches (4.06 by 6.86 by 0.5 cm)
Weight (typical)	1/3 ounce (9.4 grams)
Tape	
Width	0.068 inches (1.72 mm)
Thickness	0.001 inches (0.025 mm)
Length, Maximum	50 feet (15.25 metres)
Length, Minimum	5 feet (1.52 metres)
EOT/BOT-Marker Length	0.55 inches (14 mm)
Tape Materials	
Base	Mylar
Magnetic Coating	Chromium Dioxide
Back-of-Tape Coating	Proprietary, low-friction.
Write-Protect Marker, Diameter	0.3125 inches (8 mm)

MICRO WAFER



WAFER TRANSPORT



TRANSPORT SPECIFICATIONS:

Material	Precision die-cast ABS
Finish	Black
Weight	4 ounces (113 grams)

OPERATING CONDITIONS:

Temperature range	+5 to +45 degrees C
Relative Humidity (non-condensing)	20% to 80%

MOTOR:

Type	DC permanent magnet, 3 pole
Voltage, nominal	+6 volts
Load Current, typical	50 mA
Starting Current	500 mA
Start Time	150 mS
Stop time	100 mS

READ/WRITE HEAD:

Track Width	0.074 inches (1.8 mm)
Inductance, maximum	50 mH
Resistance, maximum	100 ohms
Gap Width	0.0001 inches (0.0025 mm)
EOT/BOT sensor to R/W head gap	2 inches (5 cm)
Write Current for 145% of saturation	2.8 mA (peak-to-peak)
Output Voltage	6 mV (peak-to-peak minimum)

(10-inches, 25.4 cm, per second; 3200 flux changes per inch, 2.54 cm, 145% of saturation)

SYSTEM SPECIFICATIONS

Dimensions:

Drive	6 x 4 x 2.5 inches
Interface	6.5 x 1.5 x 3 inches
Cable	15 inches

Weight:

Drive	24 oz.
Interface/Cable	6 oz.

Operating Environment:

Temperature	10° C to 50° C
Relative Humidity (noncondensing)	20% to 80%

Power Requirements:	V_{Input}		V_{cc}
Voltage (including ripple)	12V AC .93 amp		+5Vdc ±5%
Maximum ripple	200 mV_{p-p}		---

Operating Current (typical):	I_{Input}		I_{cc}
Standby	200mA		150mA
Normal Speed	250MA		155mA
Starting	300mA		155mA

Tape Speed (typical values):	Normal
Speed	10*ips*(±3%)
Start Time	150ms
Stop Time	100ms
Start Distance	1.0 in.
Stop Distance	.8 in.

Signal Levels: (LSTTL Compatible)

Input True (low)	0.8V max.
Input False (high)	2.0V min.
Output True (low)	0.4V max.
Output False (high)	2.4V max.

Data:

Transfer Rate	10400 baud
Jitter (output)	5% or less
Capacity (50-ft. wafer)	to 70K bytes